



PF-0634 USN

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Paper No. 14/A

<110> INCYTE GENOMICS, INC.; TANG, Y. Tom;  
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CORLEY, Neil C.; GUEGLER, Karl J.;  
BAUGHN, Mariah R.; LU, Dyung Aina M.;  
AZIMZAI, Yalda; YANG, Junming

<120> HUMAN HYDROLASE PROTEINS

<130> PF-0634 USN

<140> US 09/831,455

<141> To Be Assigned

<150> PCT/US99/27009

<151> 1999-11-12

<150> US 60/135,519

<151> 1999-05-21

<150> US 60/172,256

<151> 1998-11-12

<160> 35

<170> PERL Program

<210> 1

<211> 159

<212> PRT

<213> Homo sapiens

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<221> misc\_feature

<223> Incyte ID No: 2293764CD1

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Val	Val	Thr	Val	Asp	Ala	Lys	Ile	Tyr	Glu	Leu	Cys	Glu	Leu	Ala
				20					25					30
Ala	Arg	Leu	Glu	Arg	Ala	Gly	Leu	Asn	Gly	Tyr	Lys	Gly	Tyr	Gly
				35					40					45
Val	Gly	Asp	Trp	Leu	Cys	Met	Ala	His	Tyr	Glu	Ser	Gly	Phe	Asp
				50					55					60
Thr	Ala	Phe	Val	Asp	His	Asn	Pro	Asp	Gly	Ser	Ser	Glu	Tyr	Gly
				65					70					75
Ile	Phe	Gln	Leu	Asn	Ser	Ala	Trp	Trp	Cys	Asp	Asn	Gly	Ile	Thr
				80					85					90
Pro	Thr	Lys	Asn	Leu	Cys	His	Met	Asp	Cys	His	Asp	Leu	Leu	Asn
				95					100					105
Arg	His	Ile	Leu	Asp	Asp	Ile	Arg	Cys	Ala	Lys	Gln	Ile	Val	Ser
				110					115					120
Ser	Gln	Asn	Gly	Leu	Ser	Ala	Trp	Thr	Ser	Trp	Arg	Leu	His	Cys
				125					130					135

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Ser Gly His Asp Leu Ser Glu Trp Leu Lys Gly Cys Asp Met His  
140 145 150  
Val Lys Ile Asp Pro Lys Ile His Pro  
155

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<220>  
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1 5 10 15  
Ile Arg Gly Val Pro Glu Ser Leu Ala Ser Gly Glu Gly Ala Gly  
20 25 30  
Ala Gly Leu Pro Ala Leu Asp Leu Ala Lys Ala Gln Arg Glu His  
35 40 45  
Gly Val Leu Gly Gly Lys Leu Arg Gln Arg Leu Gly Leu Gln Leu  
50 55 60  
Leu Glu Leu Pro Pro Glu Glu Ser Leu Pro Leu Gly Pro Leu Leu  
65 70 75  
Gly Asp Thr Ala Val Ile Gln Gly Asp Thr Ala Leu Ile Thr Arg  
80 85 90  
Pro Trp Ser Pro Ala Arg Arg Pro Glu Val Asp Gly Val Arg Lys  
95 100 105  
Ala Leu Gln Asp Leu Gly Leu Arg Ile Val Glu Ile Gly Asp Glu  
110 115 120  
Asn Ala Thr Leu Asp Gly Thr Asp Val Leu Phe Thr Gly Arg Glu  
125 130 135  
Phe Phe Val Gly Leu Ser Lys Trp Thr Asn His Arg Gly Ala Glu  
140 145 150  
Ile Val Ala Asp Thr Phe Arg Asp Phe Ala Val Ser Thr Val Pro  
155 160 165  
Val Ser Gly Pro Ser His Leu Arg Gly Leu Cys Gly Met Gly Gly  
170 175 180  
Pro Arg Thr Val Val Ala Gly Ser Ser Asp Ala Ala Gln Lys Ala  
185 190 195  
Val Arg Ala Met Ala Val Leu Thr Asp His Pro Tyr Ala Ser Leu  
200 205 210  
Thr Leu Pro Asp Asp Ala Ala Ala Asp Cys Leu Phe Leu Arg Pro  
215 220 225  
Gly Leu Pro Gly Val Pro Pro Phe Leu Leu His Arg Gly Gly Gly  
230 235 240  
Asp Leu Pro Asn Ser Gln Glu Ala Leu Gln Lys Leu Ser Asp Val  
245 250 255  
Thr Leu Val Pro Val Ser Cys Ser Glu Leu Glu Lys Ala Gly Ala  
260 265 270  
Gly Leu Ser Ser Leu Cys Leu Val Leu Ser Thr Arg Pro His Ser  
275 280 285

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<210> 3

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<212> PRT

<213> Homo sapiens .

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<223> Incyte ID No: 1297034CD1

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Phe	Leu	Leu	Leu	Val	Leu	Leu	Leu	Val	Thr	Arg	Ser	Pro	Val	Asn
				20					25					30
Ala	Cys	Leu	Leu	Thr	Gly	Ser	Leu	Phe	Val	Leu	Leu	Arg	Val	Phe
				35					40					45
Ser	Phe	Glu	Pro	Val	Pro	Ser	Cys	Arg	Ala	Leu	Gln	Val	Leu	Lys
				50					55					60
Pro	Arg	Asp	Arg	Ile	Ser	Ala	Ile	Ala	His	Arg	Gly	Gly	Ser	His
				65					70					75
Asp	Ala	Pro	Glu	Asn	Thr	Leu	Ala	Ala	Ile	Arg	Gln	Ala	Ala	Lys
				80					85					90
Asn	Gly	Ala	Thr	Gly	Val	Glu	Leu	Asp	Ile	Glu	Phe	Thr	Ser	Asp
				95					100					105
Gly	Ile	Pro	Val	Leu	Met	His	Asp	Asn	Thr	Val	Asp	Arg	Thr	Thr
				110					115					120
Asp	Gly	Thr	Gly	Arg	Leu	Cys	Asp	Leu	Thr	Phe	Glu	Gln	Ile	Arg
				125					130					135
Lys	Leu	Asn	Pro	Ala	Ala	Asn	His	Arg	Leu	Arg	Asn	Asp	Phe	Pro
				140					145					150
Asp	Glu	Lys	Ile	Pro	Thr	Leu	Arg	Glu	Ala	Val	Ala	Glu	Cys	Leu
				155					160					165
Asn	His	Asn	Leu	Thr	Ile	Phe	Phe	Asp	Val	Lys	Gly	His	Ala	His
				170					175					180
Lys	Ala	Thr	Glu	Ala	Leu	Lys	Lys	Met	Tyr	Met	Glu	Phe	Pro	Gln
				185					190					195
Leu	Tyr	Asn	Asn	Ser	Val	Val	Cys	Ser	Phe	Leu	Pro	Glu	Val	Ile
				200					205					210
Tyr	Lys	Met	Arg	Gln	Thr	Asp	Arg	Asp	Val	Ile	Thr	Ala	Leu	Thr
				215					220					225
His	Arg	Pro	Trp	Ser	Leu	Ser	His	Thr	Gly	Asp	Gly	Lys	Pro	Arg
				230					235					240
Tyr	Asp	Thr	Phe	Trp	Lys	His	Phe	Ile	Phe	Val	Met	Met	Asp	Ile
				245					250					255
Leu	Leu	Asp	Trp	Ser	Met	His	Asn	Ile	Leu	Trp	Tyr	Leu	Cys	Gly
				260					265					270
Ile	Ser	Ala	Phe	Leu	Met	Gln	Lys	Asp	Phe	Val	Ser	Pro	Ala	Tyr
				275					280					285
Leu	Lys	Lys	Trp	Ser	Ala	Lys	Gly	Ile	Gln	Val	Val	Gly	Trp	Thr
				290					295					300
Val	Asn	Thr	Phe	Asp	Glu	Lys	Ser	Tyr	Tyr	Glu	Ser	His	Leu	Gly
				305					310					315
Ser	Ser	Tyr	Ile	Thr	Asp	Ser	Met	Val	Glu	Asp	Cys	Glu	Pro	His

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Phe 320 325 330

<210> 4  
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<213> Homo sapiens  
  
<220>  
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Met Ala Ala Ala Leu Ala Leu Val Ala Gly Val Leu Ser Gly Ala  
1 5 10 15  
Val Leu Pro Leu Trp Ser Ala Leu Pro Gln Tyr Lys Lys Lys Ile  
20 25 30  
Thr Asp Arg Cys Phe His His Ser Glu Cys Tyr Ser Gly Cys Cys  
35 40 45  
Leu Met Asp Leu Asp Ser Gly Gly Ala Phe Cys Ala Pro Arg Ala  
50 55 60  
Arg Ile Thr Met Ile Cys Leu Pro Gln Trp Leu Glu Leu Phe Lys  
65 70 75  
Gly Arg Asp Cys Ile Ile Phe Ile Tyr Glu Ala Pro Thr Pro Ser  
80 85 90  
Leu Val Ser Ala His Asn Gln Gly Ser Tyr Gln His His Leu Pro  
95 100 105  
Leu Pro Asp Gly Leu Asp Val His Ile Gln Gly Leu Asp Val Phe  
110 115 120  
Pro Pro Val Pro Tyr Asp Leu Glu Glu Asp Ala Gly Trp Ser Leu  
125 130 135  
Leu Pro Trp Gly His Arg Pro Trp Leu Pro Pro Thr Cys Ser Lys  
140 145 150  
Ser Ser Ser

<210> 5  
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Met Glu Arg Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val  
1 5 10 15  
Val Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu  
20 25 30  
Val Ala Gln Pro Gln Val Asp Thr Thr Leu Gly Arg Val Arg Gly  
35 40 45  
Arg Gln Val Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe

	50		55		60
Leu Gly Ile Pro Phe	Ala Gln Pro Pro	Leu Gly Pro Asp Arg	Phe		
	65		70		75
Ser Ala Pro His Pro	Ala Gln Pro Trp	Glu Gly Val Arg Asp	Ala		
	80		85		90
Ser Thr Ala Pro Pro	Met Cys Leu Gln	Asp Val Glu Ser Met	Asn		
	95		100		105
Ser Ser Arg Phe Val	Leu Asn Gly Lys	Gln Gln Ile Phe Ser	Val		
	110		115		120
Ser Glu Asp Cys Leu	Val Leu Asn Val	Tyr Ser Pro Ala Glu	Val		
	125		130		135
Pro Ala Gly Ser Gly	Arg Pro Val Met	Val Trp Val His Gly	Gly		
	140		145		150
Ala Leu Ile Thr Gly	Ala Ala Thr Ser	Tyr Asp Gly Ser Ala	Leu		
	155		160		165
Ala Ala Tyr Gly Asp	Val Val Val Val	Thr Val Gln Tyr Arg	Leu		
	170		175		180
Gly Val Leu Gly Phe	Phe Ser Thr Gly	Asp Glu His Ala Pro	Gly		
	185		190		195
Asn Gln Gly Phe Leu	Asp Val Val Ala	Ala Leu Arg Trp Val	Gln		
	200		205		210
Glu Asn Ile Ala Pro	Phe Gly Gly Asp	Leu Asn Cys Val Thr	Val		
	215		220		225
Phe Gly Gly Ser Ala	Gly Gly Ser Ile	Ile Ser Gly Leu Val	Leu		
	230		235		240
Ser Pro Val Ala Ala	Gly Leu Phe His	Arg Ala Ile Thr Gln	Ser		
	245		250		255
Gly Val Ile Thr Thr	Pro Gly Ile Ile	Asp Ser His Pro Trp	Pro		
	260		265		270
Leu Ala Gln Lys Ile	Ala Asn Thr Leu	Ala Cys Ser Ser Ser	Ser		
	275		280		285
Pro Ala Glu Met Val	Gln Cys Leu Gln	Gln Lys Glu Gly Glu	Glu		
	290		295		300
Leu Val Leu Ser Lys	Lys Leu Lys Asn	Thr Ile Tyr Pro Leu	Thr		
	305		310		315
Val Asp Gly Thr Val	Phe Pro Lys Ser	Pro Lys Glu Leu Leu	Lys		
	320		325		330
Glu Lys Pro Phe His	Ser Val Pro Phe	Leu Met Gly Val Asn	Asn		
	335		340		345
His Glu Phe Ser Trp	Leu Ile Pro Arg	Gly Trp Gly Leu Leu	Asp		
	350		355		360
Thr Met Glu Gln Met	Ser Arg Glu Asp	Met Leu Ala Ile Ser	Thr		
	365		370		375
Pro Val Leu Thr Ser	Leu Asp Val Pro	Pro Glu Met Met Pro	Thr		
	380		385		390
Val Ile Asp Glu Tyr	Leu Gly Ser Asn	Ser Asp Ala Gln Ala	Lys		
	395		400		405
Cys Gln Ala Phe Gln	Glu Phe Met Gly	Asp Val Phe Ile Asn	Val		
	410		415		420
Pro Thr Val Ser Phe	Ser Arg Tyr Leu	Arg Asp Ser Gly Ser	Pro		
	425		430		435
Val Phe Phe Tyr Glu	Phe Gln His Arg	Pro Ser Ser Phe Ala	Lys		
	440		445		450
Ile Lys Pro Ala Trp	Val Lys Ala Asp	His Gly Ala Glu Gly	Ala		

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	455		460		465
Phe Val Phe Gly Gly Pro Phe Leu Met Asp Glu Ser Ser Arg Leu					
	470		475		480
Ala Phe Pro Glu Ala Thr Glu Glu Glu Lys Gln Leu Ser Leu Thr					
	485		490		495
Met Met Ala Gln Trp Thr His Phe Ala Arg Thr Gly Asp Pro Asn					
	500		505		510
Ser Lys Ala Leu Pro Pro Trp Pro Gln Phe Asn Gln Ala Glu Gln					
	515		520		525
Tyr Leu Glu Ile Asn Pro Val Pro Arg Ala Gly Gln Lys Phe Arg					
	530		535		540
Glu Ala Trp Met Gln Phe Trp Ser Glu Thr Leu Pro Ser Lys Ile					
	545		550		555
Gln Gln Trp His Gln Lys Gln Lys Asn Arg Lys Ala Gln Glu Asp					
	560		565		570
Leu					

<210> 6

<211> 347

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1859618CD1

<400> 6

Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile					
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Gln Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Ala					
	20		25		30
Ala Ser Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val					
	35		40		45
Phe Arg Ser Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala					
	50		55		60
Glu Ile Pro Gly Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val					
	65		70		75
Glu Phe Phe Asn Leu Thr His Leu Pro Ala Asn Leu Leu Gln Gly					
	80		85		90
Ala Ser Lys Leu Gln Glu Leu His Leu Ser Ser Asn Gly Leu Glu					
	95		100		105
Ser Leu Ser Pro Glu Phe Leu Arg Pro Val Pro Gln Leu Arg Val					
	110		115		120
Leu Asp Leu Thr Arg Asn Ala Leu Thr Gly Leu Pro Pro Gly Leu					
	125		130		135
Phe Gln Ala Ser Ala Thr Leu Asp Thr Leu Val Leu Lys Glu Asn					
	140		145		150
Gln Leu Glu Val Leu Glu Val Ser Trp Leu His Gly Leu Lys Ala					
	155		160		165
Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu Arg Lys Leu Pro					
	170		175		180
Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr Leu Asp Leu					
	185		190		195

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Gly	Glu	Asn	Gln	Leu	Glu	Thr	Leu	Pro	Pro	Asp	Leu	Leu	Arg	Gly	
				200					205					210	
Pro	Leu	Gln	Leu	Glu	Arg	Leu	His	Leu	Glu	Gly	Asn	Lys	Leu	Gln	
				215					220					225	
Val	Leu	Gly	Lys	Asp	Leu	Leu	Leu	Pro	Gln	Pro	Asp	Leu	Arg	Tyr	
				230					235					240	
Leu	Phe	Leu	Asn	Gly	Asn	Lys	Leu	Ala	Arg	Val	Ala	Ala	Gly	Ala	
				245					250					255	
Phe	Gln	Gly	Leu	Arg	Gln	Leu	Asp	Met	Leu	Asp	Leu	Ser	Asn	Asn	
				260					265					270	
Ser	Leu	Ala	Ser	Val	Pro	Glu	Gly	Leu	Trp	Ala	Ser	Leu	Gly	Gln	
				275					280					285	
Pro	Asn	Trp	Asp	Met	Arg	Asp	Gly	Phe	Asp	Ile	Ser	Gly	Asn	Pro	
				290					295					300	
Trp	Ile	Cys	Asp	Gln	Asn	Leu	Ser	Asp	Leu	Tyr	Arg	Trp	Leu	Gln	
				305					310					315	
Ala	Gln	Lys	Asp	Lys	Met	Phe	Ser	Gln	Asn	Asp	Thr	Arg	Cys	Ala	
				320					325					330	
Gly	Pro	Glu	Ala	Val	Lys	Gly	Gln	Thr	Leu	Leu	Ala	Val	Ala	Lys	
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Ser Gln

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<211> 194

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2011071CD1

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Ser	Val	Ser	Ser	Ala	Asp	Ser	Thr	Glu	Lys	Ser	Ala	Ser	Gly	Ala	
				20					25					30	
Gly	Thr	Arg	Asn	Leu	Pro	Phe	Gln	Phe	Cys	Leu	Arg	Gln	Ala	Leu	
				35					40					45	
Arg	Met	Lys	Ala	Ala	Gly	Ile	Leu	Thr	Leu	Ile	Gly	Cys	Leu	Val	
				50					55					60	
Thr	Gly	Ala	Glu	Ser	Lys	Ile	Tyr	Thr	Arg	Cys	Lys	Leu	Ala	Lys	
				65					70					75	
Ile	Phe	Ser	Arg	Ala	Gly	Leu	Asp	Asn	Tyr	Trp	Gly	Phe	Ser	Leu	
				80					85					90	
Gly	Asn	Trp	Ile	Cys	Met	Ala	Tyr	Tyr	Glu	Ser	Gly	Tyr	Asn	Thr	
				95					100					105	
Thr	Ala	Pro	Thr	Val	Leu	Asp	Asp	Gly	Ser	Ile	Asp	Tyr	Gly	Ile	
				110					115					120	
Phe	Gln	Ile	Asn	Thr	Phe	Ala	Trp	Cys	Arg	Arg	Gly	Lys	Leu	Lys	
				125					130					135	
Glu	Asn	Asn	His	Cys	His	Val	Ala	Cys	Ser	Ala	Leu	Ile	Thr	Asp	
				140					145					150	
Asp	Leu	Thr	Asp	Ala	Ile	Ile	Cys	Ala	Arg	Lys	Ile	Val	Lys	Glu	

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	155		160		165
Thr Gln Gly Met Asn Tyr Trp Gln Gly		Trp Lys Lys His Cys Glu			
	170		175		180
Gly Arg Asp Leu Ser Glu Trp Lys Lys		Gly Cys Glu Val Ser			
	185		190		

<210> 8

<211> 361

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2186517CD1

<400> 8

Met Ala Trp Gln Gly	Trp Pro Ala Ala	Trp Gln Trp Val Ala Gly	
1	5	10	15
Cys Trp Leu Leu Leu	Val Leu Val Leu	Val Leu Leu Val Ser Pro	
	20	25	30
Arg Gly Cys Arg Ala	Arg Arg Gly Leu	Arg Gly Leu Leu Met Ala	
	35	40	45
His Ser Gln Arg Leu	Leu Phe Arg Ile	Gly Tyr Ser Leu Tyr Thr	
	50	55	60
Arg Thr Trp Leu Gly	Tyr Leu Phe Tyr	Arg Gln Gln Leu Arg Arg	
	65	70	75
Ala Arg Asn Arg Tyr	Pro Lys Gly His	Ser Lys Thr Gln Thr Arg	
	80	85	90
Leu Phe Asn Gly Val	Lys Val Leu Pro	Ile Pro Val Leu Ser Asp	
	95	100	105
Asn Tyr Ser Tyr Leu	Ile Ile Asp Thr	Gln Ala Gln Leu Ala Val	
	110	115	120
Ala Val Asp Pro Ser	Asp Pro Arg Ala	Val Gln Ala Ser Ile Glu	
	125	130	135
Lys Glu Gly Val Thr	Leu Val Ala Ile	Leu Cys Thr His Lys His	
	140	145	150
Trp Asp His Ser Gly	Gly Asn Arg Asp	Leu Ser Arg Arg His Arg	
	155	160	165
Asp Cys Arg Val Tyr	Gly Ser Pro Gln	Asp Gly Ile Pro Tyr Leu	
	170	175	180
Thr His Pro Leu Cys	His Gln Asp Val	Val Ser Val Gly Arg Leu	
	185	190	195
Gln Ile Arg Ala Leu	Ala Thr Pro Gly	His Thr Gln Gly His Leu	
	200	205	210
Val Tyr Leu Leu Asp	Gly Glu Pro Tyr	Lys Gly Pro Ser Cys Leu	
	215	220	225
Phe Ser Gly Asp Leu	Leu Phe Leu Ser	Gly Cys Gly Arg Thr Phe	
	230	235	240
Glu Gly Asn Ala Glu	Thr Met Leu Ser	Ser Leu Asp Thr Val Leu	
	245	250	255
Gly Leu Gly Asp Asp	Thr Leu Leu Trp	Pro Gly His Glu Tyr Ala	
	260	265	270
Glu Glu Asn Leu Gly	Phe Ala Gly Val	Val Glu Pro Glu Asn Leu	
	275	280	285



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Ala	Arg	Glu	Arg	Lys	Met	Gln	Trp	Val	Gln	Arg	Gln	Arg	Leu	Glu	
				290					295					300	
Arg	Lys	Gly	Thr	Cys	Pro	Ser	Thr	Leu	Gly	Glu	Glu	Arg	Ser	Tyr	
				305					310					315	
Asn	Pro	Phe	Leu	Arg	Thr	His	Cys	Leu	Ala	Leu	Gln	Glu	Ala	Leu	
				320					325					330	
Gly	Pro	Gly	Pro	Gly	Pro	Thr	Gly	Asp	Asp	Asp	Tyr	Ser	Arg	Ala	
				335					340					345	
Gln	Leu	Leu	Glu	Glu	Leu	Arg	Arg	Leu	Lys	Asp	Met	His	Lys	Ser	
				350					355					360	

Lys

<210> 9

<211> 306

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2253585CD1

<400> 9

Met	Leu	Arg	Trp	Thr	Arg	Ala	Trp	Arg	Leu	Pro	Arg	Glu	Gly	Leu	
1				5					10					15	
Gly	Pro	His	Gly	Pro	Ser	Phe	Ala	Arg	Val	Pro	Val	Ala	Pro	Ser	
				20					25					30	
Ser	Ser	Ser	Gly	Gly	Arg	Gly	Gly	Ala	Glu	Pro	Arg	Pro	Leu	Pro	
				35					40					45	
Leu	Ser	Tyr	Arg	Leu	Leu	Asp	Gly	Glu	Ala	Ala	Leu	Pro	Ala	Val	
				50					55					60	
Val	Phe	Leu	His	Gly	Leu	Phe	Gly	Ser	Lys	Thr	Asn	Phe	Asn	Ser	
				65					70					75	
Ile	Ala	Lys	Ile	Leu	Ala	Gln	Gln	Thr	Gly	Arg	Arg	Val	Leu	Thr	
				80					85					90	
Val	Asp	Ala	Arg	Asn	His	Gly	Asp	Ser	Pro	His	Ser	Pro	Asp	Met	
				95					100					105	
Ser	Tyr	Glu	Ile	Met	Ser	Gln	Asp	Leu	Gln	Asp	Leu	Leu	Pro	Gln	
				110					115					120	
Leu	Gly	Leu	Val	Pro	Cys	Val	Val	Val	Gly	His	Ser	Met	Gly	Gly	
				125					130					135	
Lys	Thr	Ala	Met	Leu	Leu	Ala	Leu	Gln	Arg	Pro	Glu	Leu	Val	Glu	
				140					145					150	
Arg	Leu	Ile	Ala	Val	Asp	Ile	Ser	Pro	Val	Glu	Ser	Thr	Gly	Val	
				155					160					165	
Ser	His	Phe	Ala	Thr	Tyr	Val	Ala	Ala	Met	Arg	Ala	Ile	Asn	Ile	
				170					175					180	
Ala	Asp	Glu	Leu	Pro	Arg	Ser	Arg	Ala	Arg	Lys	Leu	Ala	Asp	Glu	
				185					190					195	
Gln	Leu	Ser	Ser	Val	Ile	Gln	Asp	Met	Ala	Val	Arg	Gln	His	Leu	
				200					205					210	
Leu	Thr	Asn	Leu	Val	Glu	Val	Asp	Gly	Arg	Phe	Val	Trp	Arg	Val	
				215					220					225	
Asn	Leu	Asp	Ala	Leu	Thr	Gln	His	Leu	Asp	Lys	Ile	Leu	Ala	Phe	

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Pro	Gln	Arg	Gln	Glu	Ser	Tyr	Leu	Gly	Pro	Thr	Leu	Phe	Leu	Leu
				230					235					240
				245					250					255
Gly	Gly	Asn	Ser	Gln	Phe	Val	His	Pro	Ser	His	His	Pro	Glu	Ile
				260					265					270
Met	Arg	Leu	Phe	Pro	Arg	Ala	Gln	Met	Gln	Thr	Val	Pro	Asn	Ala
				275					280					285
Gly	His	Trp	Ile	His	Ala	Asp	Arg	Pro	Gln	Asp	Phe	Ile	Ala	Ala
				290					295					300
Ile	Arg	Gly	Phe	Leu	Val									
				305										

<210> 10

<211> 483

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2447520CD1

<400> 10

Met	Ser	Asn	Lys	Leu	Leu	Ser	Pro	His	Pro	His	Ser	Val	Val	Leu
1				5					10					15
Arg	Ser	Glu	Phe	Lys	Met	Ala	Ser	Ser	Pro	Ala	Val	Leu	Arg	Ala
				20					25					30
Ser	Arg	Leu	Tyr	Gln	Trp	Ser	Leu	Lys	Ser	Ser	Ala	Gln	Phe	Leu
				35					40					45
Gly	Ser	Pro	Gln	Leu	Arg	Gln	Val	Gly	Gln	Ile	Ile	Arg	Val	Pro
				50					55					60
Ala	Arg	Met	Ala	Ala	Thr	Leu	Ile	Leu	Glu	Pro	Ala	Gly	Arg	Cys
				65					70					75
Cys	Trp	Asp	Glu	Pro	Val	Arg	Ile	Ala	Val	Arg	Gly	Leu	Ala	Pro
				80					85					90
Glu	Gln	Pro	Val	Thr	Leu	Arg	Ala	Ser	Leu	Arg	Asp	Glu	Lys	Gly
				95					100					105
Ala	Leu	Phe	Gln	Ala	His	Ala	Arg	Tyr	Arg	Ala	Asp	Thr	Leu	Gly
				110					115					120
Glu	Leu	Asp	Leu	Glu	Arg	Ala	Pro	Ala	Leu	Gly	Gly	Ser	Phe	Ala
				125					130					135
Gly	Leu	Glu	Pro	Met	Gly	Leu	Leu	Trp	Ala	Leu	Glu	Pro	Glu	Lys
				140					145					150
Pro	Leu	Val	Arg	Leu	Val	Lys	Arg	Asp	Val	Arg	Thr	Pro	Leu	Ala
				155					160					165
Val	Glu	Leu	Glu	Val	Leu	Asp	Gly	His	Asp	Pro	Asp	Pro	Gly	Arg
				170					175					180
Leu	Leu	Cys	Gln	Thr	Arg	His	Glu	Arg	Tyr	Phe	Leu	Pro	Pro	Gly
				185					190					195
Val	Arg	Arg	Glu	Pro	Val	Arg	Val	Gly	Arg	Val	Arg	Gly	Thr	Leu
				200					205					210
Phe	Leu	Pro	Pro	Glu	Pro	Gly	Pro	Phe	Pro	Gly	Ile	Val	Asp	Met
				215					220					225
Phe	Gly	Thr	Gly	Gly	Gly	Leu	Leu	Glu	Tyr	Arg	Ala	Ser	Leu	Leu
				230					235					240

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Ala Gly Lys Gly Phe Ala Val Met Ala Leu Ala Tyr Tyr Asn Tyr	245	250	255
Glu Asp Leu Pro Lys Thr Met Glu Thr Leu His Leu Glu Tyr Phe	260	265	270
Glu Glu Ala Met Asn Tyr Leu Leu Ser His Pro Glu Val Lys Gly	275	280	285
Pro Gly Val Gly Leu Leu Gly Ile Ser Lys Gly Gly Glu Leu Cys	290	295	300
Leu Ser Met Ala Ser Phe Leu Lys Gly Ile Thr Ala Ala Val Val	305	310	315
Ile Asn Gly Ser Val Ala Asn Val Gly Gly Thr Leu Arg Tyr Lys	320	325	330
Gly Glu Thr Leu Pro Pro Val Gly Val Asn Arg Asn Arg Ile Lys	335	340	345
Val Thr Lys Asp Gly Tyr Ala Asp Ile Val Asp Val Leu Asn Ser	350	355	360
Pro Leu Glu Gly Pro Asp Gln Lys Ser Phe Ile Pro Val Glu Arg	365	370	375
Ala Glu Ser Thr Phe Leu Phe Leu Val Gly Gln Asp Asp His Asn	380	385	390
Trp Lys Ser Glu Phe Tyr Ala Asn Glu Ala Cys Lys Arg Leu Gln	395	400	405
Ala His Gly Arg Arg Lys Pro Gln Ile Ile Cys Tyr Pro Glu Thr	410	415	420
Gly His Tyr Ile Glu Pro Pro Tyr Phe Pro Leu Cys Arg Ala Ser	425	430	435
Leu His Ala Leu Val Gly Ser Pro Ile Ile Trp Gly Gly Glu Pro	440	445	450
Arg Ala His Ala Met Ala Gln Val Asp Ala Trp Lys Gln Leu Gln	455	460	465
Thr Phe Phe His Lys His Leu Gly Gly His Glu Gly Thr Ile Pro	470	475	480
Ser Lys Val			

<210> 11

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2481345CD1

<400> 11

Met Leu Leu Leu Trp Val Ser Val Val Ala Ala Leu Ala Leu Ala	1	5	10	15
Val Leu Ala Pro Gly Ala Gly Glu Gln Arg Arg Arg Ala Ala Lys	20	25	30	
Ala Pro Asn Val Val Leu Val Val Ser Asp Ser Phe Asp Gly Arg	35	40	45	
Leu Thr Phe His Pro Gly Ser Gln Val Val Lys Leu Pro Phe Ile	50	55	60	
Asn Phe Met Lys Thr Arg Gly Thr Ser Phe Leu Asn Ala Tyr Thr				

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	65		70		75
Asn Ser Pro Ile Cys Cys Pro Ser Arg Ala Ala Met Trp Ser Gly					
	80		85		90
Leu Phe Thr His Leu Thr Glu Ser Trp Asn Asn Phe Lys Gly Leu					
	95		100		105
Asp Pro Asn Tyr Thr Thr Trp Met Asp Val Met Glu Arg His Gly					
	110		115		120
Tyr Arg Thr Gln Lys Phe Gly Lys Leu Asp Tyr Thr Ser Gly His					
	125		130		135
His Ser Ile Ser Asn Arg Val Glu Ala					
	140				

<210> 12  
<211> 180  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2484020CD1

<400> 12	
Met Met Lys Phe Lys Pro Asn Gln Thr Arg Thr Tyr Asp Arg Glu	
1 5 10 15	
Gly Phe Lys Lys Arg Ala Ala Cys Leu Cys Phe Arg Ser Glu Gln	
20 25 30	
Glu Asp Glu Val Leu Leu Val Ser Ser Ser Arg Tyr Pro Asp Gln	
35 40 45	
Trp Ile Val Pro Gly Gly Gly Met Glu Pro Glu Glu Glu Pro Gly	
50 55 60	
Gly Ala Ala Val Arg Glu Val Tyr Glu Glu Ala Gly Val Lys Gly	
65 70 75	
Lys Leu Gly Arg Leu Leu Gly Ile Phe Glu Asn Gln Asp Arg Lys	
80 85 90	
His Arg Thr Tyr Val Tyr Val Leu Thr Val Thr Glu Ile Leu Glu	
95 100 105	
Asp Trp Glu Asp Ser Val Asn Ile Gly Arg Lys Arg Glu Trp Phe	
110 115 120	
Lys Val Glu Asp Ala Ile Lys Val Leu Gln Cys His Lys Pro Val	
125 130 135	
His Ala Glu Tyr Leu Glu Lys Leu Lys Leu Gly Cys Ser Pro Ala	
140 145 150	
Asn Gly Asn Ser Thr Val Pro Ser Leu Pro Asp Asn Asn Ala Leu	
155 160 165	
Phe Val Thr Ala Ala Gln Thr Ser Gly Leu Pro Ser Ser Val Arg	
170 175 180	

<210> 13  
<211> 375  
<212> PRT  
<213> Homo sapiens

<220>

PF-0634 USN

<221> misc\_feature

<223> Incyte ID No: 2862528CD1

<400> 13

Met	Ala	Arg	Pro	Gly	Leu	Ile	His	Ser	Ala	Pro	Gly	Leu	Pro	Asp
1				5					10					15
Thr	Cys	Ala	Leu	Leu	Gln	Pro	Pro	Ala	Ala	Ser	Ala	Ala	Ala	Ala
				20					25					30
Pro	Ser	Met	Ser	Gly	Pro	Asp	Val	Glu	Thr	Pro	Ser	Ala	Ile	Gln
				35					40					45
Ile	Cys	Arg	Ile	Met	Arg	Pro	Asp	Asp	Ala	Asn	Val	Ala	Gly	Asn
				50					55					60
Val	His	Gly	Gly	Thr	Ile	Leu	Lys	Met	Ile	Glu	Glu	Ala	Gly	Ala
				65					70					75
Ile	Ile	Ser	Thr	Arg	His	Cys	Asn	Ser	Gln	Asn	Gly	Glu	Arg	Cys
				80					85					90
Val	Ala	Ala	Leu	Ala	Arg	Val	Glu	Arg	Thr	Asp	Phe	Leu	Ser	Pro
				95					100					105
Met	Cys	Ile	Gly	Glu	Val	Ala	His	Val	Ser	Ala	Glu	Ile	Thr	Tyr
				110					115					120
Thr	Ser	Lys	His	Ser	Val	Glu	Val	Gln	Val	Asn	Val	Met	Ser	Glu
				125					130					135
Asn	Ile	Leu	Thr	Gly	Ala	Lys	Lys	Leu	Thr	Asn	Lys	Ala	Thr	Leu
				140					145					150
Trp	Tyr	Val	Pro	Leu	Ser	Leu	Lys	Asn	Val	Asp	Lys	Val	Leu	Glu
				155					160					165
Val	Pro	Pro	Val	Val	Tyr	Ser	Arg	Gln	Glu	Gln	Glu	Glu	Glu	Gly
				170					175					180
Arg	Lys	Arg	Tyr	Glu	Ala	Gln	Lys	Leu	Glu	Arg	Met	Glu	Thr	Lys
				185					190					195
Trp	Arg	Asn	Gly	Asp	Ile	Val	Gln	Pro	Val	Leu	Asn	Pro	Gly	Val
				200					205					210
Thr	Met	Lys	Leu	Met	Asp	Glu	Val	Ala	Gly	Ile	Val	Ala	Ala	Arg
				215					220					225
His	Cys	Lys	Thr	Asn	Ile	Val	Thr	Ala	Ser	Val	Asp	Ala	Ile	Asn
				230					235					240
Phe	His	Asp	Lys	Ile	Arg	Lys	Gly	Cys	Val	Ile	Thr	Ile	Ser	Gly
				245					250					255
Arg	Met	Thr	Phe	Thr	Ser	Asn	Lys	Ser	Met	Glu	Ile	Glu	Val	Leu
				260					265					270
Val	Asp	Ala	Asp	Pro	Val	Val	Asp	Ser	Ser	Gln	Lys	Arg	Tyr	Arg
				275					280					285
Ala	Ala	Ser	Ala	Phe	Phe	Thr	Tyr	Val	Ser	Leu	Ser	Gln	Glu	Gly
				290					295					300
Arg	Ser	Leu	Pro	Val	Pro	Gln	Leu	Val	Pro	Glu	Thr	Glu	Asp	Glu
				305					310					315
Lys	Lys	Arg	Phe	Glu	Glu	Gly	Lys	Gly	Arg	Tyr	Leu	Gln	Met	Lys
				320					325					330
Ala	Asn	Asp	Arg	Ala	Thr	Arg	Ser	Leu	Ser	Pro	Arg	Leu	Pro	Pro
				335					340					345
Pro	Ala	Thr	Gly	Ala	Ser	Ser	Ser	His	Gly	Asn	Gly	Pro	Ser	Val
				350					355					360
Gln	Ser	Leu	Arg	Ser	Ser	Pro	Leu	Gly	Gln	Lys	Pro	Asn	Ser	His
				365					370					375

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<210> 14  
<211> 637  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3200650CD1

<400> 14  
Met Thr Thr Trp Ser Leu Arg Arg Arg Pro Ala Arg Thr Leu Gly  
1 5 10 15  
Leu Leu Leu Leu Val Val Leu Gly Phe Leu Val Leu Arg Arg Leu  
20 25 30  
Asp Trp Ser Thr Leu Val Pro Leu Arg Leu Arg His Arg Gln Leu  
35 40 45  
Gly Leu Gln Ala Lys Gly Trp Asn Phe Met Leu Glu Asp Ser Thr  
50 55 60  
Phe Trp Ile Phe Gly Gly Ser Ile His Tyr Phe Arg Val Pro Arg  
65 70 75  
Glu Tyr Trp Arg Asp Arg Leu Leu Lys Met Lys Ala Cys Gly Leu  
80 85 90  
Asn Thr Leu Thr Thr Tyr Val Pro Trp Asn Leu His Glu Pro Glu  
95 100 105  
Arg Gly Lys Phe Asp Phe Leu Trp Glu Thr Trp Thr Leu Lys Ala  
110 115 120  
Phe Val Leu Met Ala Ala Glu Ile Gly Leu Trp Val Ile Leu Arg  
125 130 135  
Pro Gly Pro Tyr Ile Cys Ser Glu Met Asp Leu Gly Gly Leu Pro  
140 145 150  
Ser Trp Leu Leu Gln Asp Pro Gly Met Arg Leu Arg Thr Thr Tyr  
155 160 165  
Lys Gly Phe Thr Glu Ala Val Asp Leu Tyr Phe Asp His Leu Met  
170 175 180  
Ser Arg Val Val Pro Leu Gln Tyr Lys Arg Gly Gly Pro Ile Ile  
185 190 195  
Ala Val Gln Val Glu Asn Glu Tyr Gly Ser Tyr Asn Lys Asp Pro  
200 205 210  
Ala Tyr Met Pro Tyr Val Lys Lys Ala Leu Glu Asp Arg Gly Ile  
215 220 225  
Val Glu Leu Leu Leu Thr Ser Asp Asn Lys Asp Gly Leu Ser Lys  
230 235 240  
Gly Ile Val Gln Gly Val Leu Ala Thr Ile Asn Leu Gln Ser Thr  
245 250 255  
His Glu Leu Gln Leu Leu Thr Thr Phe Leu Phe Asn Val Gln Gly  
260 265 270  
Thr Gln Pro Lys Met Val Met Glu Tyr Trp Thr Gly Trp Phe Asp  
275 280 285  
Ser Trp Gly Gly Pro His Asn Ile Leu Asp Ser Ser Glu Val Leu  
290 295 300  
Lys Thr Val Ser Ala Ile Val Asp Ala Gly Ser Ser Ile Asn Leu  
305 310 315

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Tyr	Met	Phe	His	Gly	Gly	Thr	Asn	Phe	Gly	Phe	Met	Asn	Gly	Ala	
				320					325					330	
Met	His	Phe	His	Asp	Tyr	Lys	Ser	Asp	Val	Thr	Ser	Tyr	Asp	Tyr	
				335					340					345	
Asp	Ala	Val	Leu	Thr	Glu	Ala	Gly	Asp	Tyr	Thr	Ala	Lys	Tyr	Met	
				350					355					360	
Lys	Leu	Arg	Asp	Phe	Phe	Gly	Ser	Ile	Ser	Gly	Ile	Pro	Leu	Pro	
				365					370					375	
Pro	Pro	Pro	Asp	Leu	Leu	Pro	Lys	Met	Pro	Tyr	Glu	Pro	Leu	Thr	
				380					385					390	
Pro	Val	Leu	Tyr	Leu	Ser	Leu	Trp	Asp	Ala	Leu	Lys	Tyr	Leu	Gly	
				395					400					405	
Glu	Pro	Ile	Lys	Ser	Glu	Lys	Pro	Ile	Asn	Met	Glu	Asn	Leu	Pro	
				410					415					420	
Val	Asn	Gly	Gly	Asn	Gly	Gln	Ser	Phe	Gly	Tyr	Ile	Leu	Tyr	Glu	
				425					430					435	
Thr	Ser	Ile	Thr	Ser	Ser	Gly	Ile	Leu	Ser	Gly	His	Val	His	Asp	
				440					445					450	
Arg	Gly	Gln	Val	Phe	Val	Asn	Thr	Val	Ser	Ile	Gly	Phe	Leu	Asp	
				455					460					465	
Tyr	Lys	Thr	Thr	Lys	Ile	Ala	Val	Pro	Leu	Ile	Gln	Gly	Tyr	Thr	
				470					475					480	
Val	Leu	Arg	Ile	Leu	Val	Glu	Asn	Arg	Gly	Arg	Val	Asn	Tyr	Gly	
				485					490					495	
Glu	Asn	Ile	Asp	Asp	Gln	Arg	Lys	Gly	Leu	Ile	Gly	Asn	Leu	Tyr	
				500					505					510	
Leu	Asn	Asp	Ser	Pro	Leu	Lys	Asn	Phe	Arg	Ile	Tyr	Ser	Leu	Asp	
				515					520					525	
Met	Lys	Lys	Ser	Phe	Phe	Gln	Arg	Phe	Gly	Leu	Asp	Lys	Trp	Ser	
				530					535					540	
Ser	Leu	Pro	Glu	Thr	Pro	Thr	Leu	Pro	Ala	Phe	Phe	Leu	Gly	Ser	
				545					550					555	
Leu	Ser	Ile	Ser	Ser	Thr	Pro	Cys	Asp	Thr	Phe	Leu	Lys	Leu	Glu	
				560					565					570	
Gly	Trp	Glu	Lys	Gly	Val	Val	Phe	Ile	Asn	Gly	Gln	Asn	Leu	Gly	
				575					580					585	
Arg	Tyr	Trp	Asn	Ile	Gly	Pro	Gln	Lys	Thr	Leu	Tyr	Leu	Pro	Gly	
				590					595					600	
Pro	Trp	Leu	Ser	Ser	Gly	Ile	Asn	Gln	Val	Ile	Val	Phe	Glu	Glu	
				605					610					615	
Thr	Met	Ala	Gly	Pro	Ala	Leu	Gln	Phe	Thr	Glu	Thr	Pro	His	Leu	
				620					625					630	
Gly	Arg	Asn	Gln	Tyr	Ile	Lys									
				635											

<210> 15

<211> 314

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4107621CD1

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<400> 15

Met	Ser	Glu	Asn	Ala	Ala	Pro	Gly	Leu	Ile	Ser	Glu	Leu	Lys	Leu
1				5					10					15
Ala	Val	Pro	Trp	Gly	His	Ile	Ala	Ala	Lys	Ala	Trp	Gly	Ser	Leu
				20					25					30
Gln	Gly	Pro	Pro	Val	Leu	Cys	Leu	His	Gly	Trp	Leu	Asp	Asn	Ala
				35					40					45
Ser	Ser	Phe	Asp	Arg	Leu	Ile	Pro	Leu	Leu	Pro	Gln	Asp	Phe	Tyr
				50					55					60
Tyr	Val	Ala	Met	Asp	Phe	Gly	Gly	His	Gly	Leu	Ser	Ser	His	Tyr
				65					70					75
Ser	Pro	Gly	Val	Pro	Tyr	Tyr	Leu	Gln	Thr	Phe	Val	Ser	Glu	Ile
				80					85					90
Arg	Arg	Val	Val	Ala	Ala	Leu	Lys	Trp	Asn	Arg	Phe	Ser	Ile	Leu
				95					100					105
Gly	His	Ser	Phe	Gly	Gly	Val	Val	Gly	Met	Phe	Phe	Cys	Thr	
				110					115					120
Phe	Pro	Glu	Met	Val	Asp	Lys	Leu	Ile	Leu	Leu	Asp	Thr	Pro	Leu
				125					130					135
Phe	Leu	Leu	Glu	Ser	Asp	Glu	Met	Glu	Asn	Leu	Leu	Thr	Tyr	Lys
				140					145					150
Arg	Arg	Ala	Ile	Glu	His	Val	Leu	Gln	Val	Glu	Ala	Ser	Gln	Glu
				155					160					165
Pro	Ser	His	Val	Phe	Ser	Leu	Lys	Gln	Leu	Leu	Gln	Arg	Leu	Leu
				170					175					180
Lys	Ser	Asn	Ser	His	Leu	Ser	Glu	Glu	Cys	Gly	Glu	Leu	Leu	Leu
				185					190					195
Gln	Arg	Gly	Thr	Thr	Lys	Val	Ala	Thr	Gly	Leu	Val	Leu	Asn	Arg
				200					205					210
Asp	Gln	Arg	Leu	Ala	Trp	Ala	Glu	Asn	Ser	Ile	Asp	Phe	Ile	Ser
				215					220					225
Arg	Glu	Leu	Cys	Ala	His	Ser	Ile	Arg	Lys	Leu	Gln	Ala	His	Val
				230					235					240
Leu	Leu	Ile	Lys	Ala	Val	His	Gly	Tyr	Phe	Asp	Ser	Arg	Gln	Asn
				245					250					255
Tyr	Ser	Glu	Lys	Glu	Ser	Leu	Ser	Phe	Met	Ile	Asp	Thr	Met	Lys
				260					265					270
Ser	Thr	Leu	Lys	Glu	Gln	Phe	Gln	Phe	Val	Glu	Val	Pro	Gly	Asn
				275					280					285
His	Cys	Val	His	Met	Ser	Glu	Pro	Gln	His	Val	Ala	Ser	Ile	Ile
				290					295					300
Ser	Ser	Phe	Leu	Gln	Cys	Thr	His	Met	Leu	Pro	Ala	Gln	Leu	
				305					310					

<210> 16

<211> 448

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4661133CD1

<400> 16



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Met	Arg	Arg	Ala	Ala	Leu	Arg	Leu	Cys	Ala	Leu	Gly	Lys	Gly	Gln	1	5	10	15
Leu	Thr	Pro	Gly	Arg	Gly	Leu	Thr	Gln	Gly	Pro	Gln	Asn	Pro	Lys	20	25	30	
Lys	Gln	Gly	Ile	Phe	His	Ile	His	Glu	Ala	Cys	Ser	Ser	Ile	His	35	40	45	
Val	Asn	His	Val	Arg	Asp	Lys	Leu	Arg	Glu	Ile	Val	Gly	Ala	Ser	50	55	60	
Thr	Asn	Trp	Arg	Asp	His	Val	Lys	Ala	Met	Glu	Glu	Arg	Lys	Leu	65	70	75	
Leu	His	Ser	Phe	Leu	Ala	Lys	Ser	Gln	Asp	Gly	Leu	Pro	Pro	Arg	80	85	90	
Arg	Met	Lys	Asp	Ser	Tyr	Ile	Glu	Val	Leu	Leu	Pro	Leu	Gly	Ser	95	100	105	
Glu	Pro	Glu	Leu	Arg	Glu	Lys	Tyr	Leu	Thr	Val	Gln	Asn	Thr	Val	110	115	120	
Arg	Phe	Gly	Arg	Ile	Leu	Glu	Asp	Leu	Asp	Ser	Leu	Gly	Val	Leu	125	130	135	
Ile	Cys	Tyr	Met	His	Asn	Lys	Ile	His	Ser	Ala	Lys	Met	Ser	Pro	140	145	150	
Leu	Ser	Ile	Val	Thr	Ala	Leu	Val	Asp	Lys	Ile	Asp	Met	Cys	Lys	155	160	165	
Lys	Ser	Leu	Ser	Pro	Glu	Gln	Asp	Ile	Lys	Phe	Ser	Gly	His	Val	170	175	180	
Ser	Trp	Val	Gly	Lys	Thr	Ser	Met	Glu	Val	Lys	Met	Gln	Met	Phe	185	190	195	
Gln	Leu	His	Gly	Asp	Glu	Phe	Cys	Pro	Val	Leu	Asp	Ala	Thr	Phe	200	205	210	
Val	Met	Val	Ala	Arg	Asp	Ser	Glu	Asn	Lys	Gly	Pro	Ala	Phe	Val	215	220	225	
Asn	Pro	Leu	Ile	Pro	Glu	Ser	Pro	Glu	Glu	Glu	Glu	Leu	Phe	Arg	230	235	240	
Gln	Gly	Glu	Leu	Asn	Lys	Gly	Arg	Arg	Ile	Ala	Phe	Ser	Ser	Thr	245	250	255	
Ser	Leu	Leu	Lys	Met	Ala	Pro	Ser	Ala	Glu	Glu	Arg	Thr	Thr	Ile	260	265	270	
His	Glu	Met	Phe	Leu	Ser	Thr	Leu	Asp	Pro	Lys	Thr	Ile	Ser	Phe	275	280	285	
Arg	Ser	Arg	Val	Leu	Pro	Ser	Asn	Ala	Val	Trp	Met	Glu	Asn	Ser	290	295	300	
Lys	Leu	Lys	Ser	Leu	Glu	Ile	Cys	His	Pro	Gln	Glu	Arg	Asn	Ile	305	310	315	
Phe	Asn	Arg	Ile	Phe	Gly	Gly	Phe	Leu	Met	Arg	Lys	Ala	Tyr	Glu	320	325	330	
Leu	Ala	Trp	Ala	Thr	Ala	Cys	Ser	Phe	Gly	Gly	Ser	Arg	Pro	Phe	335	340	345	
Val	Val	Ala	Val	Asp	Asp	Ile	Met	Phe	Gln	Lys	Pro	Val	Glu	Val	350	355	360	
Gly	Ser	Leu	Leu	Phe	Leu	Ser	Ser	Gln	Val	Cys	Phe	Thr	Gln	Asn	365	370	375	
Asn	Tyr	Ile	Gln	Val	Arg	Val	His	Ser	Glu	Val	Ala	Ser	Leu	Gln	380	385	390	
Glu	Lys	Gln	His	Thr	Thr	Thr	Asn	Val	Phe	His	Phe	Thr	Phe	Met	395	400	405	

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Ser Glu Lys Glu Val Pro Leu Val Phe Pro Lys Thr Tyr Gly Glu  
410 415 420  
Ser Met Leu Tyr Leu Asp Gly Gln Arg His Phe Asn Ser Met Ser  
425 430 435  
Gly Pro Ala Thr Leu Arg Lys Asp Tyr Leu Val Glu Pro  
440 445

<210> 17  
<211> 723  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2293764CB1

<400> 17  
gcagcaacag agttgcaggt gtaaaataac gggaaggcgg gatgcgtggc taaattgctc 60  
tgcgtgcaca aagagtagga gagcccagag ttccagaatg ccctaattc cgaacaccac 120  
aggggtgagtc tggagcaagt cacctgggag ggcttacagg tgccataatg aaggcctggg 180  
gcactgtggt agtgacctg gccacgctga tggttgtcac tgtggatgcc aagatctatg 240  
aactctgcga gctggcgcca agactggaga gagcagggct gaacggctac aagggtctacg 300  
gcgttggaga ctggctgtgc atggctcatt atgagagtgg ctttgacacc gccttcgtgg 360  
accacaatcc tgatggcagc agtgaatatg gcattttcca actgaattct gcctgggtgg 420  
gtgacaatgg cattacacc accaagaacc tctgccacat ggattgtcat gacctgctca 480  
atcgccatat tctggatgac atcagggtgtg ccaagcagat tgtgtcctca cagaatgggc 540  
tttctgcctg gacttcttgg aggtacact gttctggcca tgatttatct gaatgggtca 600  
aggggtgtga tatgcatgtg aaaattgatc caaaaattca tccatgactc agattcgaag 660  
agacagattt tatcttcctt tcatttcttc atattgtcac ttaataaag gatggtactc 720  
gtc 723

<210> 18  
<211> 1228  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 949738CB1

<400> 18  
cccgagccg ccagaccgtc gcgcccctgc cccatcgtag tatatgagct cgcctacaca 60  
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<210> 27  
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 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 2481345CB1

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<211> 3038

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3200650CB1

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<210> 31
<211> 1340
<212> DNA
<213> Homo sapiens

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<220>
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<223> Incyte ID No: 4107621CB1

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<212> DNA  
<213> Homo sapiens

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<211> 148  
<212> PRT  
<213> Colobus guereza

<220>  
<221> misc\_feature  
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<400> 33

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Val	Gln	Gly	Lys	Ile	Phe	Glu	Arg	Cys	Glu	Leu	Ala	Arg	Thr	Leu
				20					25					30
Lys	Lys	Leu	Gly	Leu	Asp	Gly	Tyr	Lys	Gly	Val	Ser	Leu	Ala	Asn
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Trp	Val	Cys	Leu	Ala	Lys	Trp	Glu	Ser	Gly	Tyr	Asn	Thr	Asp	Ala
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Thr	Asn	Tyr	Asn	Pro	Gly	Asp	Glu	Ser	Thr	Asp	Tyr	Gly	Ile	Phe
				65					70					75
Gln	Ile	Asn	Ser	Arg	Tyr	Trp	Cys	Asn	Asn	Gly	Lys	Thr	Pro	Gly
				80					85					90
Ala	Val	Asn	Ala	Cys	His	Ile	Ser	Cys	Asn	Ala	Leu	Leu	Gln	Asn
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Asn	Ile	Ala	Asp	Ala	Val	Ala	Cys	Ala	Lys	Arg	Val	Val	Ser	Asp
				110					115					120
Pro	Gln	Gly	Ile	Arg	Ala	Trp	Val	Ala	Trp	Lys	Lys	His	Cys	Gln
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Asn	Arg	Asp	Val	Ser	Gln	Tyr	Val	Glu	Gly	Cys	Gly	Val		
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<210> 34

<211> 148

<212> PRT

<213> Colobus angolensis

<220>

<221> misc\_feature

<223> GenBank ID No: g1790967

<400> 34

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				20					25					30
Lys	Lys	Leu	Gly	Leu	Asp	Gly	Tyr	Lys	Gly	Val	Ser	Leu	Ala	Asn
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Trp	Val	Cys	Leu	Ala	Lys	Trp	Glu	Ser	Gly	Tyr	Asn	Thr	Asp	Ala
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Thr	Asn	Tyr	Asn	Pro	Gly	Asp	Glu	Ser	Thr	Asp	Tyr	Gly	Ile	Phe
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Gln	Ile	Asn	Ser	Arg	Tyr	Trp	Cys	Asn	Asn	Gly	Lys	Thr	Pro	Gly
				80					85					90
Ala	Val	Asn	Ala	Cys	His	Ile	Ser	Cys	Asn	Ala	Leu	Leu	Gln	Asn
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Asn	Ile	Ala	Asp	Ala	Val	Ala	Cys	Ala	Lys	Arg	Val	Val	Ser	Asp
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Pro	Gln	Gly	Ile	Arg	Ala	Trp	Val	Ala	Trp	Lys	Lys	His	Cys	Gln
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Asn	Arg	Asp	Val	Ser	Gln	Tyr	Val	Glu	Gly	Cys	Gly	Val		
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<210> 35

<211> 148

PF-0634 USN

<212> PRT

<213> Nasalis larvatus

<220>

<221> misc\_feature

<223> GenBank ID No: g1790984

<400> 35

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Lys Lys Leu Gly Leu Asp Gly Tyr Lys Gly Val Ser Leu Ala Asn  
35 40 45  
Trp Val Cys Leu Ala Lys Trp Glu Ser Gly Tyr Asn Thr Glu Ala  
50 55 60  
Thr Asn Tyr Asn Pro Gly Asp Glu Ser Thr Asp Tyr Gly Ile Phe  
65 70 75  
Gln Ile Asn Ser Arg Tyr Trp Cys Asn Asn Gly Lys Thr Pro Gly  
80 85 90  
Ala Val Asp Ala Cys His Ile Ser Cys Ser Ala Leu Leu Gln Asn  
95 100 105  
Asn Ile Ala Asp Ala Val Ala Cys Ala Lys Arg Val Val Ser Asp  
110 115 120  
Pro Gln Gly Ile Arg Ala Trp Val Ala Trp Arg Asn His Cys Gln  
125 130 135  
Asn Arg Asp Val Ser Gln Tyr Val Lys Gly Cys Gly Val  
140 145

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